Name:

**Experimental Lab Sheet**

**State Your Question or Problem:**

***Example:*** *Does the addition of organic fertilizer cause an increase in the size of tomatoes?*

**Hypothesis (must be a good, concise “If…..then” testable prediction):**

***Example:*** *If organic fertilizer affects the size of tomatoes, then plants receiving fertilizer during their growth will produce larger tomatoes than plants that receive no fertilizer.*

**Experimental Procedure:**

(Describe the **detailed, step-by-step** procedure you will carry out. Remember that your description should be so specific that an average person could follow your directions to repeat the entire experiment. Please don’t leave out anything important!)

***Example:*** *I do not have space to describe an entire experiment here, so please simply try to follow my directions above, and ask if you have questions.*

**Make sure to List Your:**

Independent Variable: ***Example:*** *Organic Fertilizer (see above)*

(“What are you manipulating / changing?”)

Dependent Variable: ***Example:*** *Size of Average Tomato (see above)*

(“What are you measuring / observing?”)

Controlled Variables: ***Example:*** *Soil, Water, Sunlight, etc. etc. etc. (see above)*

(“What are you keeping the same?”)

**(Conclusions section on back of this sheet)**

**Data:** (Describe the necessary data, observations, etc. that are(were) collected during the experiment. **\*Note:** You need to use a separate sheet, tables, graph paper, etc. for this)

**Conclusions:** (After analyzing the data from your experiment, write a detailed description of the outcome of your experiment. Specifically you should explain whether the data results either **support** your hypothesis or **reject** it and why. Be specific, and use your data, graphs, etc. to explain your reasoning. You should also explain any important patterns observed in the data, any problems with the experimental procedure, steps that might be changed in the future, and any new research questions that came up during the experiment)

***Example:*** *Again, here I do not have space to describe an entire “Conclusions” section write-up, so please simply try to follow my directions above, and ask if you have questions.*